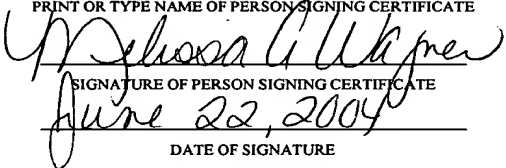




IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/857,651
Applicant (s) : Tatsuji Seki and Kazuhito Fujiyama
Filed : August 27, 2001
TC/A.U. : 1638
Examiner : David H. Kruse
Title : METHOD FOR MANUFACTURING GLYCOPROTEINS
HAVING HUMAN -TYPE GLYCOSYLATION

Docket No. : 62736A
Customer No. : 00109

EXPRESS MAIL LABEL NO. EV331475265US
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Commissioner for Patents
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INFORMATION DISCLOSURE STATEMENT

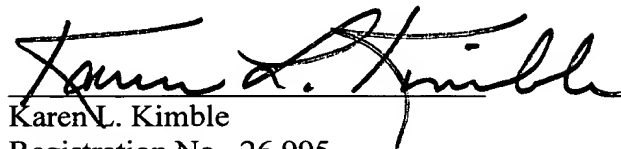
Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449. A concise explanation of the relevancy of any non-English language patent(s) and/or publication(s) for which no translation is provided is as follows:

WO99/38987 has been cited in the our case PCT/JP99/06881 and WO99/38987 concerns a method for preparing α_1 -antitrypsin, or its alleles, (α_1 -AT) by (i) using monocot cells having a cDNA for α_1 -AT; (ii) selecting cell with intergrated, stable nucleic acid; (iii) propagating culture or plants; and (iv) recuperating and optimally purifying α_1 -AT. There are no equivalents available in English.

DE 19754622 has been cited in PCT/JP99/06881 and an equivalent in English is being provided as US Patent No. 6,652,459.

The cited U.S. patents and patent application publications are listed on the PTO-1449. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,



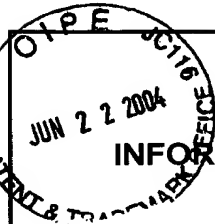
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INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

ATTY DOCKET NO.

62736A

SERIAL NO.

09/857,651

APPLICANT

Tatsuji Seki and Kazuhito Fujiyama

FILING DATE

August 27, 2001

GROUP

1638

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	5,959,177	09/1999	Hein et al.	800	288	
	6,602,684	08/2003	Umana et al.	435	69.1	
	6,653,459	11/2003	Von Schaewen	536	23.1	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
97/04122	02/06/1997	WO	C12P	21/00	
99/38987	08/05/1999	WO	C12N	15/82	X
197 54 622	06/10/1999	Germany	C12N	15/54	X

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Palacpac, Nirianne et al., "Stable Expression of human β 1, 4-galactosyltransferase in plant cells modifies N-linked glycosylation patterns", Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 4692-4697, April 1999 Plant Biology.
	Takahashi et al, Biochemistry 1986, 25:388-395
	Dinter and Berger 1995, The regulation of cell and tissue specific expression of glycans by glycosyltransferases, in Glycoimmunology, Alavi and Axford (eds), Plenum Press, New York, pp. 53-82.
	Sakai, Hiromi et al., "Human glycosyltransferase expression and intracellular/intercellular glycoprotein sugar chain structure in cultured tobacco BY2 cells. (Abstract)" IC Botech, Osaka, Nara Institute of Science and Technology, March 5, 1998
	Yoshida, Shohei et al., "Expression of β 1, 4-Galactosyltransferase in Tobacco Culture Cell, September 15, 1995.
	Zhang, Yi, et al. "Transformation of Tobacco Using Human β -1,4-galactosyltransferase Gene and Regeneration of Transgenic Plants. Annual Reports of IC Botech, Vol. 18, 1995, publicly available August 31, 1998.

EXAMINER

DATE CONSIDERED

*EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.